

### **Abstract**

A lubrication system is disclosed which minimizes friction and that is useful for application on the surface of a flexible portion of a medical device. Such a lubrication system includes a lubricant that is able to move when the flexible portion of the medical device flexes and is biocompatible and is not degraded by the application of alcohol or other conventional medical sterilizing and cleaning agents. The lubricant is bonded to the surface of the flexible portion of the medical device. The lubrication system may be used on an elastomeric septum, such as a silicone rubber elastomer. The lubricant coating may be any type of coating that can be chemically bonded to the elastomer, such as di-paraxylene, poly-(p-xylene), polytetrafluoroethylene, or polyvinylpyrrolidone.